

**ABSTRACT**

The invention provides methods for the treatment of surfaces using surface adsorbing polymers, methods for decreasing the adsorption of organic materials onto the surface of treated devices or vessels, methods for performing fluid operations involving the treatment of surfaces, and apparatus and systems comprising the treated surfaces. Further, the present invention provides a method for treating the surface of microfluidics channel wherein the microfluidics surface is coated for deactivation and wherein this coating can be easily regenerated. The present invention also provides a method for treating the surface of a plastic device. The surface adsorbing polymers of the invention are particularly stable at temperatures and conditions required for biochemical reactions, especially in applications involving temperature cycling or polymerization of polynucleotides or polypeptides.